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(12) **United States Plant Patent**
Boeder

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(54) **CHRYSANTHEMUM PLANT NAMED**
'FLORINA'

(50) Latin Name: *Chrysanthemum morifolium*
Varietal Denomination: **Florina**

(75) Inventor: **Mark Roland Boeder**, The Hague
(NL)

(73) Assignee: **Chrysanthemum Breeders Association**
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(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 75 days.

(21) Appl. No.: **11/020,237**

(22) Filed: **Dec. 27, 2004**

(51) **Int. Cl.**
A01H 5/00 (2006.01)

(52) **U.S. Cl.** **Plt./289**

(58) **Field of Classification Search** **Plt./289**
See application file for complete search history.

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(57) **ABSTRACT**

A *chrysanthemum* plant named 'Florina' characterized by its
small sized blooms with yellow ray florets and prolific
branching; natural season flower date September 27–October
3 (Week 40); blooming for a period of 4 weeks.

3 Drawing Sheets

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BACKGROUND OF THE INVENTION

'Florina' is a product of a breeding and selection program
for outdoor pot mums (garden mums) which had the objec-
tive of creating new *chrysanthemum* cultivars with a daisy
type flower, a natural season flower date around September
27–October 3 (week 40); blooming for a period of 4 weeks.
The new plant of the present invention comprises a new and
distinct cultivar of *Chrysanthemum* plant. 'Florina' is a
seedling resulting from a crossing program, which was set
up by a previous breeder, and which records are unknown to
the inventor. The new and distinct cultivar was discovered
and selected as a flowering plant by Mark Roland Boeder on
a cultivated field in Rijnsenhout Holland in 2001. The first act
of asexual production of 'Florina' was accomplished when
vegetative cuttings were taken from the initial selection in
2001 in a controlled environment in Rijnsenhout, Holland,
and propagated further at this location. The new cultivar has
been found to retain its distinctive characteristics through
successive propagations.

BRIEF DESCRIPTION OF THE DRAWINGS

The present invention of a new and distinct variety of
chrysanthemum is shown in the accompanying drawings, the
color being as nearly true as possible with color photographs
of this type.

FIG. 1 shows a plant of the cultivar in full bloom.

FIG. 2 shows the various stages of bloom of the new
cultivar.

FIG. 3 shows the foliage of the new cultivar.

DESCRIPTION OF THE INVENTION

This new variety of *chrysanthemum* is of the botanical
classification *Chrysanthemum morifolium*. The observations
and measurements were gathered from plants grown out
door in Rijnsenhout, Holland under natural day length and
temperature and planted week 24 in 2004. The natural
blooming date of this crop was September 27–October 3
(week 40). The average height of the plants was 25 cms. No
growth retardants were used. No tests were done on disease

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or insect resistance or susceptibility. No tests were done on
cold or drought tolerance. This new variety produces small
sized blooms with yellow ray florets and a yellow center
blooming for a period of 4 weeks.

From the cultivars known to inventor the most similar
existing cultivar in comparison to 'Florina' is 'Juno' (U.S.
Plant Pat. No. 14,532). When 'Juno' and 'Florina' are being
compared the following similarities and differences are
noticed. Both varieties have small sized yellow daisy type
blooms. (1) Bloom size. The blooms of 'Florina' are larger
than those of 'Juno'.

The following is a description of the plant and character-
istics that distinguish 'Florina' as a new and distinct variety.
The color designations are taken from the plant itself.
Accordingly, any discrepancies between the color designa-
tions and the colors depicted in the photographs are due to
photographic tolerances. The color chart used in this
description is: The Royal Horticultural Society Colour
Chart, edition 1995.

TABLE 1

Botanical Description of *chrysanthemum* plant 'FLORINA'

<u>Bud</u>	
Size	Small; cross-section 0.5 cm height 0.5 cm
Outside Color	Green 139B
Involucral bracts	2 rows, length 7 mm, width 3 mm
Involucral bracts among disc-florets	Not present
Involucral bracts color	Green 139B
<u>Bloom</u>	
Type	Daisy
Height	0.5 cm
Size	Small
Fully Expanded	3.5 cm
Peduncle length	5.5 cm
Peduncle color	Green 138B
Number of blooms per branch	Approx. 7 blooms per branch
Performance on the plant	4 weeks
Seeds	Produced in small quantities, ovate

TABLE 1-continued

Botanical Description of <i>chrysanthemum</i> plant 'FLORINA'	
Fragrance	grey-brown 199A, 1½ mm in length. Typical <i>chrysanthemum</i> , slightly sweet
<u>Color</u>	
Center of the flower (disc-florets)	Immature Yellow-orange 14A with dot of Green 143C Mature Yellow 13A
Color of upper surface of the ray- florets	Yellow 12A
Color of the lower surface of the ray-florets	Yellow 12B
Tonality from Distance	A garden mum with yellow flowers and a yellow disc
Discoloration to color <u>Ray florets</u>	Yellow 12A
<u>Texture</u>	Upper and under side smooth
Number	40
Cross-section	Flat
Longitudinal axis of majority	Straight
Length of corolla tube	0.3 cm
Ray-floret margin	Entire
Ray-floret length	1.5 cm
Ray-floret width	0.4 cm
Ratio length/width	High
Shape of tip	Pointed
<u>Disc florets</u>	
Disc diameter	1 cm
Distribution of disc florets	Numerous, clearly visible at all stages of flowering
Shape	Tubular
Receptacle shape	Conical raised
<u>Reproductive Organs</u>	
Stamen	Present in disc florets only
Stamen color	Yellow-green 144A
Pollen	Present
Pollen color	Yellow 7A
Styles	Thick
Style color	Yellow 13A
Style Length	4 mm
Stigma color	Yellow-green 154D
Stigma Width	1 mm
Ovaries	Enclosed in calyx
<u>Plant</u>	
Form	Grown as a spray type potmum, outdoor mounded and round
Growth habit	Spherical shape
Growth rate	High
Height	25 cm
Width	45 cm
Stem Color	Greyed-brown 199B

TABLE 1-continued

Botanical Description of <i>chrysanthemum</i> plant 'FLORINA'	
Stem Strength	Weak
Stem Brittleness	Not brittle
Stem Anthocyanin Coloration	Absent
Internode length	1.5-2 cm
Length of lateral branch	From top to bottom 11 cm
Lateral branch color	Yellow-green 144A
Lateral branch, attachment	Medium strength
Branching (average number of lateral branches)	Prolific with 10-12 breaks after pinching
Natural season blooming date	SEPTEMBER 27-OCTOBER 3 (WEEK 40)
<u>Foliage</u>	
Leaf color	Upper side Green 138A-139A Lower side Green 138A-138B
Color midvein	Upper side Yellow-green 147D Lower side Yellow-green 148D
Size	Small.; length 3-3.5 cm, width 1.7-2 cm
Quantity (number per lateral branch)	20
Shape	Ovate
Texture upper side	Glabrous
Texture under side	Pubescent
Venation arrangement	Palmate
Shape of the margin	Serrated
Shape of Base of Sinus Between Lateral Lobes	Rounded
Margin of Sinus Between Lateral Lobes	Diverging
Shape of Base	Acute
Apex	Mucronulate
Petiole length	0.5 cm
Petiole color	Yellow-green 147D

TABLE 2

<u>Differences with the comparison varieties</u>		
	'Florina'	'Juno'
Bloom type	Daisy	Daisy
Size of mature bloom	3.5 cm	2.5-3 cm
Color upper side ray-florets	Yellow 12A	Yellow 7A

I claim:

1. A new and distinct variety of *chrysanthemum* plant as described and illustrated.

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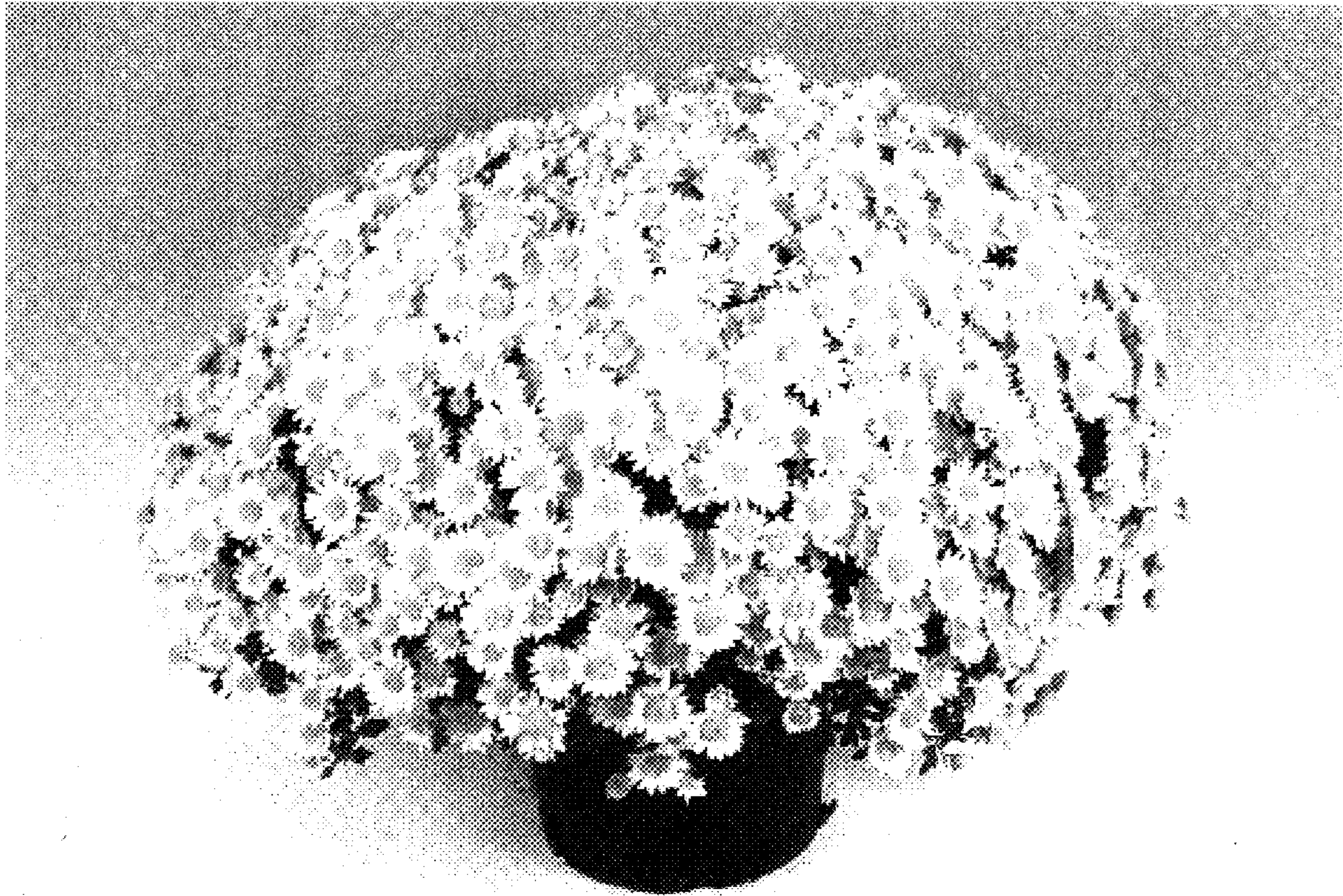


FIG. 1



FIG. 2

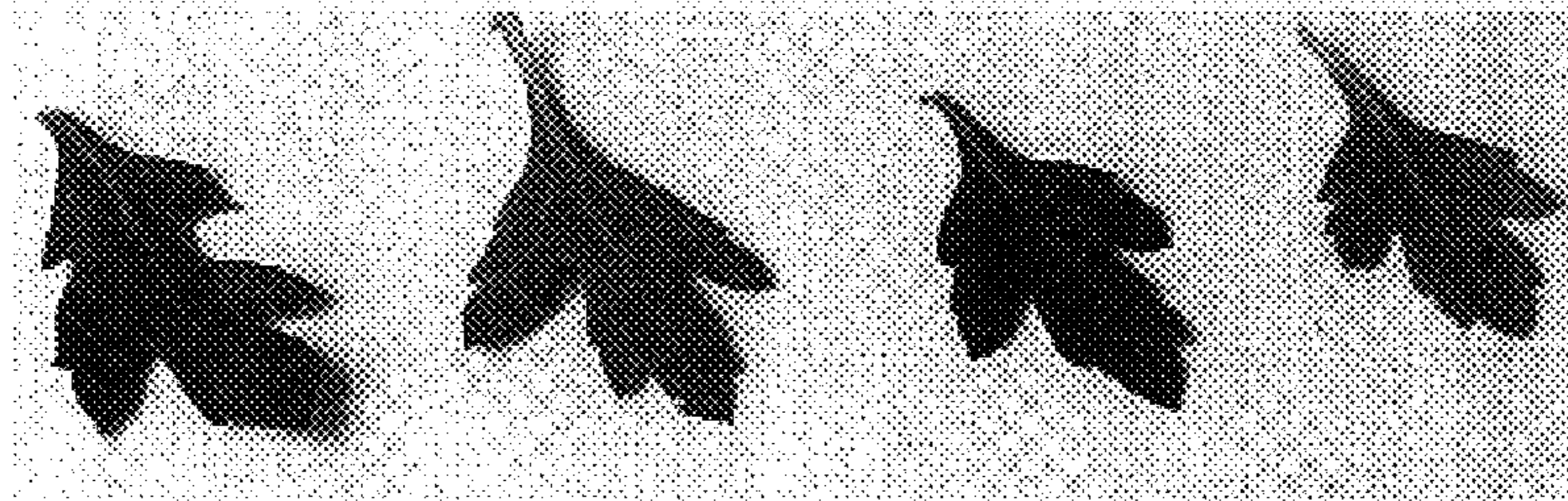


FIG. 3